

## Elements for systems of life-support in closed bio-ecosystem

Kaori Tomita-Yokotani<sup>1\*</sup>

<sup>1</sup>University of Tsukuba

Living creatures on the earth have been evolved since its origin a long time ago. They equip several important functions affecting each other. Knowledge on those functions and interaction of the ecology is essential for secure design of a closed-ecosystem with limited number of living species under the harsh environments, such as space and deep sea or desert. Here, the important elements related to the closed bio-ecosystem will be discussed by the researchers having each specialized field .

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